Amendments of the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

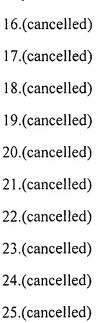
Claims

- 1. (original) A fastener which includes:
 - (a) a fastening element having a beam, an engagement means located on one side of the beam, a base and a flex point separate from the beam; and
 - (b) actuating means attached to the fastening element and including a material adapted to contract when activated;

wherein the beam is movable, upon contraction of the material, between an engagement position and a disengagement position, and wherein the base has a first arm and a second arm joined by the flex point, the beam being located at one end of the first arm and the flex point being located on the same side of the beam as the engagement means.

- 2. (original) The fastener of claim 1, wherein the engagement means is located at or towards one end of the beam of the fastening element.
- 3. (original) The fastener of claim 2, wherein the engagement means includes a projecting wedge.
- 4. (original) The fastener of claim 1, wherein the material adapted to contract when activated is shape memory alloy wire.
- 5. (original) The fastener of claim 4, wherein the shape memory alloy wire is contained within one or more grooves in the beam.
- 6. (original) The fastener of claim 5, wherein the one or more grooves are located on one side of the beam and the engagement means is located on the opposite side of the beam.
- 7. (original) The fastener of claim 1, wherein the beam is integral with the base.

- 8. (original) The fastener of claim 1, wherein a bias means is located between the first and second arms.
- 9. (original) The fastener of claim 8, wherein the bias means is a leaf spring.
- 10.(original) The fastener of claim 1, which includes a microprocessor.
- 11.(original) The fastener of claim 10, wherein the microprocessor is adapted to control energy delivery to the material adapted to contract when activated.
- 12.(original) The fastener of claim 10, wherein the microprocessor is adapted to sense whether the engagement means is engaged or disengaged.
- 13.(original) The fastener of claim 10, wherein the microprocessor is adapted to control temperature of the material adapted to contract when activated.
- 14.(original) The fastener of claim 12, wherein the microprocessor is adapted to provide a report on whether the engagement means is engaged or disengaged.
- 15.(original) The fastening system of claim 14, wherein the microprocessor is adapted to provide the report to a network of which the fastener forms a part.

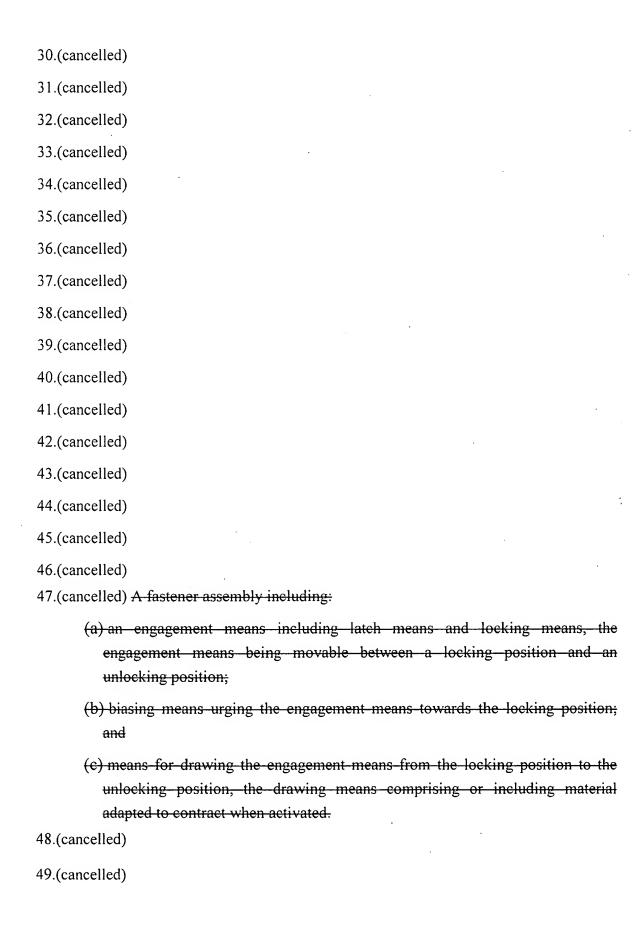


26.(cancelled)

27.(cancelled)

28.(cancelled)

29.(cancelled)



50. (cancelled) A fastening system including:

(a) first engagement-means;

(b) second engagement-means; and

(c) a locking element-moveable between a locked position in which the first engagement means is maintained in engagement with the second engagement

means and an unlocked position in which the first engagement means is free

to disengage from the second engagement means;

wherein the locking element is adapted to be moved to the unlocked position by

means adapted to contract when activated, being different from the locking

element.

51. (Cancelled)

52. (Cancelled)

Authorization

The Director is hereby authorized to charge any additional fees which may be

required for this Reply, or credit any overpayment, to Deposit Account No. 50-3791.

In the event that an extension of time is required, or which may be required in

addition to that requested in a petition for an extension of time, the Director is requested

to grant a petition for that extension of time which is required to make this response

timely and is hereby authorized to charge any fee for such an extension of time or credit

any overpayment for an extension of time to Deposit Account No. 50-3791.

Respectfully submitted,

Date: June 29, 2009

Heather A. Kartsounes

Registration No. 53,732

Attorney for Applicant



Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.